

Class **Chilopoda** Latreille, 1817<sup>1</sup> (2 subclasses)<sup>2</sup>

Subclass **Notostigmophora** Verhoeff, 1901 (1 order)

Order **Scutigeromorpha** Pocock, 1895 (3 families)

Family **Pselliodidae** Chamberlin, 1955 (1 genus, ca. 3 species)

Family **Scutigeridae** Leach, 1814 (17 genera, ca. 50 species)

Family **Scutigerinidae** Attems, 1926 (2 genera, 3 species)

Subclass **Pleurostigmophora** Verhoeff, 1901 (4 orders)<sup>3</sup>

Order **Lithobiomorpha** Pocock, 1895 (2 families)

Family **Henicopidae** (20 genera, ca. 120 species)

Family **Lithobiidae** (ca. 43 genera, ca. 1000 species)

Order **Craterostigmomorpha** Pocock, 1902 (1 family)

Family **Craterostigmatidae** Pocock, 1902 (1 genus, 2 species)

Order **Scolopendromorpha** Pocock, 1895 (5 families)

Family **Cryptopidae** Kohlrausch, 1881 (2 genera, ca. 170 species)

Family **Mimopidae** Lewis (1 genus, 1 species)

Family **Plutoniumidae** Bollman, 1893 (2 genera, 7 species)

Family **Scolopendridae** Leach, 1814 (21 genera, ca. 420 species)

Family **Scolopocryptopidae** Pocock, 1896 (8 genera, ca. 80 species)

Order **Geophilomorpha** Pocock, 1895 (13 families)

Family **Aphilodontidae** Silvestri, 1909 (3 genera, 15+ species)

Family **Ballophilidae** Cook, 1896 (12 genera, ca. 80 species)

Family **Dignathodontidae** Cook, 1896 (4 genera, ca. 20 species)

Family **Eriphantidae** Crabill, 1970 (1 genus, 1 species)

Family **Geophilidae** Leach, 1815 (ca. 100 genera, ca. 560 species)

Family **Gonibregmatidae** Cook, 1896 (8 genera, ca. 15 species)

Family **Himantariidae** Bollman, 1893 (ca. 19 genera, ca. 70 species)

Family **Linotaeniidae** (7 genera, ca. 50 species)<sup>4</sup>

Family **Macronicophilidae** Verhoeff, 1925 (1 genus, 4 species)

Family **Mecistocephalidae** Bollman, 1893 (11 genera, ca. 170 species)

Family **Neogeophilidae** Silvestri, 1818 (2 genera, 4 species)

Family **Oryidae** Cook, 1896 (ca. 18 genera, ca. 45 species)

Family **Schendylidae** Cook, 1896 (ca. 35 genera, ca. 220 species)

Class **Symphyla** Ryder, 1880 (2 families)<sup>5</sup>

Family **Scutigerellidae** Bagnall, 1913 (5 genera, 124 species)

Family **Scolopendrellidae** Bagnall, 1913 (8 genera, 73 species)

Class **Pauropoda** Lubbock, 1868 (2 orders)<sup>6</sup>

Order **Hexamerocerata** Remy, 1950 (1 family)

Family **Millotauropodidae** (1 genus, 8 species)

Order **Tetramerocerata** Remy, 1950 (11 families)

Family **Pauropodidae** Lubbock, 1867 (23 genera, 679 species)

Family **Colinauropodidae** Scheller, 1985 (1 genus, 3 species)

Family **Eirmopauropodidae** Scheller, 2010 (1 genus, 1 species)

Family **Polypauropodidae** Remy, 1932 (3 genera, 29 species)

Family **Amphipauropodidae** Scheller, 2008 (1 genus, 2 species)

1. **BY** Alessandro Minelli (for full contact details, see **Author name and address** after **Cited references**). The title of this contribution should be cited as "Class Chilopoda, Class Symphyla and Class Pauropoda. In: Zhang, Z.-Q. (Ed.) Animal biodiversity: An outline of higher-level classification and survey of taxonomic richness". Class Chilopoda includes 24 families, ca 339 genera and ca. 3110 species; class Symphyla includes 2 families, 13 genera and 197 species; class Pauropoda includes 12 families, 46 genera and 835 species.
2. Taxonomic arrangement and estimated numbers of taxa according to Bonato (2011), Edgecombe (2011a,b), Edgecombe & Bonato (2011) and Zapparoli & Edgecombe (2011).
3. Within the Pleurostigmophora, Scolopendromorpha and Geophilomorpha are usually grouped together as Epimorpha. Less fixed is the phylogenetic position of Craterostigmomorpha, probably to be grouped together with the Epimorpha in a taxon Phylactometria, as proposed by Edgecombe & Giriber (2004).
4. Likely to be merged within Geophilidae.
5. Taxonomic arrangement and estimated numbers of taxa according to Szuchscic & Scheller (2011).
6. Taxonomic arrangement and estimated numbers of taxa according to Scheller (2011).

Family **Diplopauropodidae** Scheller, 1988 (1 genus, 2 species)  
 Family **Antichtopauropodidae** Scheller, 2010 (1 genus, 1 species)  
 Family **Brachypauropodidae** Silvestri, 1902 (6 genera, 28 species)  
 Family **Hansenauropodidae** Remy, 1934 (3 genera, 6 species)  
 Family **Eurypauropodidae** Ryder, 1879 (4 genera, 62 species)  
 Family **Sphaeropauropodidae** Verhoeff, 1934 (1 genus, 14 species)

## Cited references

- Bonato, L. (2011) Geophilomorpha. In: Minelli, A. (Ed) *The Myriapoda (Treatise on Zoology – Anatomy, Taxonomy, Biology)*, 1, Brill, Leiden, pp. 407–443.
- Edgecombe, G. D. (2011a) Scutigeromorpha. In: Minelli, A. (Ed) *The Myriapoda (Treatise on Zoology – Anatomy, Taxonomy, Biology)*, 1, Brill, Leiden, pp. 363–370.
- Edgecombe, G. D. (2011b) Craterostigmomorpha. In: Minelli, A. (Ed) *The Myriapoda (Treatise on Zoology – Anatomy, Taxonomy, Biology)*, 1, Brill, Leiden, pp. 390–391.
- Edgecombe, G. D. & Bonato, L. (2011) Scolopendromorpha. In: Minelli, A. (Ed) *The Myriapoda (Treatise on Zoology – Anatomy, Taxonomy, Biology)*, 1, Brill, Leiden, pp. 392–407.
- Edgecombe, G. D. & Giribet, G. (2004) Adding mitochondrial sequence data (16S rRNA and cytochrome c oxidase subunit I) to the phylogeny of centipedes (Myriapoda, Chilopoda): an analysis of morphology and four molecular loci. *Journal of Zoological Systematics and Evolutionary Research*, 42, 89–134.
- Scheller, U. (2011) Pauropoda. In: Minelli, A. (Ed) *The Myriapoda (Treatise on Zoology – Anatomy, Taxonomy, Biology)*, 1, 467–508.
- Szuchsic, N. & Scheller, U. (2011) Symphyla. In: Minelli, A. (Ed) *The Myriapoda (Treatise on Zoology – Anatomy, Taxonomy, Biology)*, 1, Brill, Leiden, pp. 445–466.
- Zapparoli, M. & Edgecombe, G.D. (2011) Lithobiomorpha. In: Minelli, A. (Ed) *The Myriapoda (Treatise on Zoology – Anatomy, Taxonomy, Biology)*, 1, Brill, Leiden, pp. 371–389.

## Author name and address

Alessandro Minelli, Department of Biology, University of Padova, Via Ugo Bassi 58 B, I 35131 Padova, Italy  
[alessandro.minelli@unipd.it](mailto:alessandro.minelli@unipd.it)